

**ExxonMobil**  
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Global Remediation  
4096 Piedmont Avenue #194  
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jennifer.c.sedlachek@exxonmobil.com

Jennifer C. Sedlachek  
Project Manager

**ExxonMobil**  
*Refining & Supply*

June 2, 2005

Ms. Jo Bentz  
California Regional Water Quality Control Board  
North Coast Region  
5550 Skylane Boulevard, Suite A  
Santa Rosa, California 95403

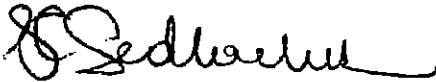
**RE: Former Exxon RAS #7-3035/4501 Sonoma Highway, Santa Rosa, California.**

Dear Ms. Bentz:

Attached for your review and comment is a copy of the letter report entitled *Addendum to Sensitive Receptor Survey*, dated June 2, 2005, for the above-referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) of Petaluma, California, and details evaluation activities at the subject site.

If you have any questions or comments, please contact me at 510.547.8196.

Sincerely,

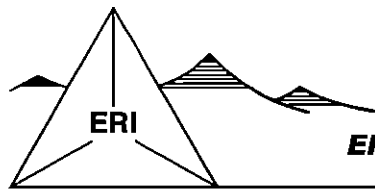


Jennifer C. Sedlachek  
Project Manager

Attachment: ERI's Addendum to Sensitive Receptor Survey, dated June 2, 2005.

cc: w/ attachment  
Mr. Paul Lowenthal, City of Santa Rosa Fire Department  
Mr. Joseph A. Aldridge, Valero Energy Corporation

w/o attachment  
Ms. Paula Sime, Environmental Resolutions, Inc.



**ENVIRONMENTAL RESOLUTIONS, INC.**

June 2, 2005  
ERI 200303.R27

Ms. Jennifer C. Sedlachek  
ExxonMobil Refining & Supply - Global Remediation  
4096 Piedmont Avenue #194  
Oakland, California 94611

Subject: Addendum to Sensitive Receptor Survey, Former Exxon Service Station 7-3035,  
4501 Sonoma Highway, Santa Rosa, California.

Ms. Sedlachek:

At the request of Exxon Mobil Corporation (Exxon Mobil), Environmental Resolutions, Inc. (ERI) is submitting this Addendum to the Sensitive Receptor Survey (SRS) for the subject site. The California Regional Water Quality Control Board, North Coast Region (Regional Board), requested this addendum in a letter dated April 28, 2005 (Attachment A).

## **SITE BACKGROUND**

The site is located on the northwestern corner of Sonoma Highway and Mission Boulevard in Santa Rosa, California, as shown on the Site Vicinity Map (Plate 1). The site is occupied by an operating Valero service station. The locations of the underground storage tanks (USTs), dispenser islands, groundwater monitoring wells, and other select site features are shown on the Generalized Site Plan (Plate 2).

## **APRIL 2004 SENSITIVE RECEPTOR SURVEY**

In April 2004, ERI submitted a *Sensitive Receptor Survey Report*, documenting the results of a SRS performed for the subject site. The April 2004 SRS included a file review and door-to-door survey. The file review consisted of a record search of the California Department of Water Resources (DWR) well driller's report archive, the City of Santa Rosa Utility Department files, and the Sonoma County Permit and Resource Management Department files to identify water supply wells within a one-half mile radius of the site. The records search revealed 39 private wells within a one-half mile radius of the site. Well information is summarized in Table 1.

ERI conducted a door-to-door survey within a 1,000-foot radius of the subject site. In addition, ERI visited the properties that have water supply wells, based on the results of the file searches. A total of 189 addresses were visited within the 1,000-foot radius. A total of 108 questionnaire cards were left and occupants of 81 addresses were questioned in person. One questionnaire card was returned stating that there was an active well on the property. Of the 39 wells identified during the file searches, only 11 wells were confirmed and/or discovered in the door-to-door survey. The approximate locations of the wells confirmed or discovered within 2,000 feet of the site are shown on Plate 3.

## **ADDITIONAL SENSITIVE RECEPTOR INVESTIGATION**

In July 2004, during access negotiations to perform a soil boring at 4389 Sonoma Highway, the property owner informed ERI and the Regional Board of the presence of an irrigation well on the property. The well, located approximately 300 feet southwest (downgradient) of the site, had not been previously identified.

In September 2004, ERI performed a door-to-door well survey downgradient and crossgradient of the site to locate additional wells that may not have been identified in ERI's April 2004 SRS. The door-to-door survey area is shown on Plate 4. ERI contacted the owners of 16 properties within the search area. If the owners were not present during the door-to-door survey, ERI left a written request for information at the property. Ten property owners responded to ERI's request for information; of these 10, eight respondents noted the presence of a well on their property, and two noted no well at the property. Six property owners did not respond to ERI's request for information.

ERI identified a total of eight additional private wells in the vicinity of the site during the door-to-door survey. The locations and addresses of these wells are shown on Plate 4. Location, use, and construction data for these wells and previously identified wells are summarized in Table 1. Wells, schools, and surface water bodies located within 2,000 feet of the site are shown on Plate 3.

### **Private Water Well Sampling**

In August 2004, ERI collected groundwater samples from the private well located at 4389 Sonoma Highway. In October and November 2004, ERI collected samples from seven private water wells identified during the September 2004 door-to-door survey (4420, 4372, 4358, 4200, 4343, 4100, and 4389 Sonoma Highway). Groundwater samples were submitted for laboratory analysis for total petroleum hydrocarbons as diesel (TPHd), total petroleum hydrocarbons as gasoline (TPHg), and methanol using EPA Method 8015B; and benzene, toluene, ethylbenzene, and total xylenes, methyl tertiary butyl ether (MTBE), ethyl tertiary butyl ether (ETBE), di-isopropyl ether (DIPE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), dibromoethane (EDB), 1,2-dichloroethane (1,2-DCA) and ethanol using EPA Method 524.2. Analytical results of the domestic well sampling are summarized in Table 2. ERI submitted the results of the private well sampling in a report titled *Summary of Sampling of Domestic Wells*, dated February 11, 2005. Additionally, ERI submitted the results of the private well sampling to the respective well owners in November and December 2004.

## **DISCUSSION AND CONCLUSIONS**

### **2005 Annual SRS Update**

ERI is preparing to conduct the 2005 annual SRS update for this site, which will involve conducting a site visit and door-to-door survey, and reviewing files at the DWR, City of Santa Rosa Utility Department, and the Sonoma County Permit and Resource Management Department. The door-to-door survey will focus on making contact with property owners who did not respond during previous attempts.

### **Continued Sampling of Private Wells**

ERI recommends continued sampling of the private wells identified during the September 2004 SRS during the second and third quarters 2005. If analyte concentrations remain below laboratory reporting limits, ERI recommends sampling the domestic wells semi-annually during the first and third quarter monitoring and sampling events. ERI and ExxonMobil are currently negotiating access to sample the well at 4344 Sonoma Highway.

### **Additional Assessment**

ERI submitted a *Work Plan for Additional Site Assessment*, dated May 18, 2005, detailing plans to advance two additional cone penetrometer test (CPT) and Hydropunch borings to further assess the stratigraphy and groundwater conditions south and southwest of the site. Following completion of the CPT/Hydropunch investigation, CPT logs and groundwater analytical results will be evaluated to determine appropriate locations for additional groundwater monitoring wells. Tentatively, 14 new wells are proposed

appropriate locations for additional groundwater monitoring wells. Tentatively, 14 new wells are proposed at five locations west and south of the site. Two or three wells will be installed at each location to monitor the lateral and vertical extent of petroleum hydrocarbons and MTBE in groundwater over time. In addition, these groundwater monitoring wells will serve as sentry wells between the site and the domestic wells downgradient of the site.

## DOCUMENT DISTRIBUTION

ERI recommends forwarding copies of this report to:

Ms. Jo Bentz  
California Regional Water Quality Control Board  
North Coast Region  
5550 Skylane Boulevard, Suite A  
Santa Rosa, California 95403

Mr. Paul Lowenthal  
City of Santa Rosa Fire Department  
955 Sonoma Avenue  
Santa Rosa, California 95404

Mr. Joseph A. Aldridge  
Valero Energy Corporation  
685 West Third Street  
Hanford, California 93230

Please call Ms. Paula Sime, ERI's project manager for the site, at (707) 766-2000 with any questions regarding this project.

Sincerely,  
Environmental Resolutions, Inc.

**SCANNED  
IMAGE**

Paula Sime  
Project Manager

Geoffrey V. Waterhouse  
R.G. 5019  
C.H.G. 334  
C.E.G. 1561



|              |               |                                   |
|--------------|---------------|-----------------------------------|
| Attachments: | Table 1:      | Well Information                  |
|              | Table 2:      | Private Water Wells Sampling Data |
|              | Plate 1:      | Site Vicinity Map                 |
|              | Plate 2:      | Generalized Site Plan             |
|              | Plate 3:      | Sensitive Receptor Map            |
|              | Plate 4:      | Private Well Location Map         |
|              | Attachment A: | Regulatory Correspondence         |

**TABLE 1**  
**WELL INFORMATION**  
Former Exxon Service Station 7-3035  
4501 Sonoma Highway  
Santa Rosa, California  
(Page 1 of 2)

| ERI Assigned<br>Designation # | Well Identification<br>Number | Location               | Owner                        | Year<br>Drilled | Total<br>Depth | Use        | Field Information                            |
|-------------------------------|-------------------------------|------------------------|------------------------------|-----------------|----------------|------------|--|
| 1                             | W-4389                        | 4389 Sonoma Hwy        | Maples                       | unk             | >100 ft        | irrigation | active for irrigation (4361-4397 residences) |
| 2                             | W-4420A                       | 4420 Sonoma Hwy        | Andrew Carillo               | 1948            | 85             | domestic   | active for all household uses and drinking   |
| 2                             | W-4420B                       | 4420 Sonoma Hwy        | Andrew Carillo               | 1950's          | 125            | domestic   | active for all household uses and drinking   |
| 3                             | W-4372                        | 4372 Sonoma Hwy        | Ruben Robbins                | 1950's          | 60-70          | domestic   | active for all household uses and drinking   |
| 4                             | W-4343                        | 4343 Sonoma Hwy        | Beth Tuxlom                  | unk             | unk            | domestic   | active for all household uses and drinking   |
| 5                             | W-4358                        | 4358 Sonoma Hwy        | Ruben Robbins                | 1928            | unk            | domestic   | active for all household uses and drinking   |
| 6                             | 49-1805                       | 4625 Sonoma Hwy        | Garrison                     | 1939            | 171            | unknown    | active                                       |
| 7                             | 13718                         | 4671 Sonoma Hwy        | Rincon Valley Mobile Estates | 1969            | 272            | other      | active                                       |
| 7                             | 67936                         | 4671 Sonoma Hwy        | Rincon Valley Mobile Estates | 1964            | 265            | other      | active                                       |
| 8                             | 49-1623                       | 4344 Sonoma Hwy        | Hammond Bros.                | 1953            | 90             | industrial | active; ERI pursuing access to sample        |
| 8                             | 49-1622                       | 4344 Sonoma Hwy        | Hammond Bros.                | 1953            | 90             | industrial | active; ERI pursuing access to sample        |
| 9                             | 64838                         | 4200 Sonoma Hwy        | Anne Mora                    | 1961            | 142            | domestic   | active for all household uses                |
| 10                            | 23717                         | 4700 Sonoma Hwy        | W.C. Snyder                  | 1956            | 295            | domestic   | active                                       |
| 11                            | W-4100                        | 4100 Sonoma Hwy        | William Buchanan             | unk             | unk            | irrigation | active irrigation well                       |
| 12                            | 23388                         | 3835 Sonoma Hwy        | Allen                        | 1955            | 60             | domestic   | no response to survey                        |
| 13                            | 64791                         | 4040 Sonoma Hwy        | Hazel Smith Broun            | 1961            | 89             | industrial | active                                       |
|                               | 49-1615                       | 4774 Sonoma Hwy        | Young                        | 1951            | 230            | domestic   | active                                       |
|                               | 58925                         | 4785 Sonoma Hwy        | Ed Ranchar                   | 1960            | 220            | domestic   | active                                       |
|                               | 49-1568                       | 626 Acacia Lane        | Mr. Wood                     | 1953            | 80             | domestic   | active                                       |
|                               | 49-1619                       | 4847 Sonoma Hwy        | Vince Baldi                  | 1953            | 230            | domestic   | active                                       |
|                               | 228219                        | 4776 Sonoma Hwy        | Whitely Worley               | 1982            | 205            | domestic   | destroyed                                    |
|                               | 112886                        | 4780 Sonoma Hwy        | N.V. Nygren                  | 1965            | 180            | domestic   | abandoned                                    |
|                               | 50120                         | 638 Acacia Lane        | Danson                       | 1958            | 68             | domestic   | no response to survey                        |
|                               | 67994                         | 664 Acacia Lane        | Rex Clifton                  | 1944            | 102            | domestic   | active                                       |
|                               |                               | Brush Creek/Sonoma Hwy |                              |                 |                | not in use | discovered                                   |
|                               | 49-1566                       | 4735 Sonoma Hwy        | N. F. Keyt                   | 1952            | 135            | domestic   | no such address                              |
|                               | 49-1565                       | 4759 Sonoma Hwy        | N. F. Keyt                   | 1950            | 245            | irrigation | no such address                              |
|                               | 49-1561                       | 4646 Sonoma Hwy        | L. Grace                     | 1947            | 190            | unknown    | no such address                              |
|                               | 67993                         | 684 Acacia Lane        | Rex Clifton                  | 1964            | 80             | domestic   | no such address                              |
|                               | 49-1624                       | 4605 Sonoma Hwy        | Hugh Baumgartner             | 1952            | 150            | domestic   | no such address                              |
|                               | 49-1567                       | 4769 Sonoma Hwy        | Hammond Bros.                | 1953            | 100            | domestic   | no such address                              |
|                               | 49-1613                       | 4769 Sonoma Hwy        | Arthur I. Rice               | 1949            | 121            | unknown    | no such address                              |
|                               | 67992                         | 490 Acacia Lane        | Rex Clifton                  | 1964            | 108            | domestic   | no such address                              |
|                               | 49-1571                       | *Randall/ Sonoma Hwy   | H. Madhai                    | 1957            | 91             | domestic   | unable to locate                             |
|                               | 56299                         | *Randall/ Sonoma Hwy   | E.F Hubbard                  | 1960            | 130            | domestic   | unable to locate                             |
|                               | 49-1552                       | *Acacia/ Sonoma Hwy    | Mr. Matson                   | 1951            | 32             | domestic   | unable to locate                             |
|                               | 49-1551                       | *Acacia/ Sonoma Hwy    | J. T. Allison                | 1950            | 69             | domestic   | unable to locate                             |
|                               | 49-1553                       | *Acacia/ Sonoma Hwy    | E. Mark                      | 1951            | 91             | domestic   | unable to locate                             |

**TABLE 1**  
**WELL INFORMATION**  
Former Exxon Service Station 7-3035  
4501 Sonoma Highway  
Santa Rosa, California  
(Page 2 of 2)

| ERI Assigned Designation # | Well Identification Number | Location          | Owner              | Year Drilled | Total Depth | Use       | Field Information |
|----------------------------|----------------------------|-------------------|--------------------|--------------|-------------|-----------|-------------------|
|                            | 96395                      | *Sonoma           | Chester Wertz      | 1975         | 187         | domestic  | unable to locate  |
|                            | 7/7-8N3                    | *Sonoma Hwy       | Gram               | 1945         | 182         | unknown   | unable to locate  |
|                            | 7/7-7R4                    | *Sonoma Hwy       | L. Culler          | 1939         | 83          | unknown   | unable to locate  |
|                            | 49-1562                    | *Sonoma Hwy       | Myra King          | 1938         | 162         | unknown   | unable to locate  |
|                            | 49-15163                   | *Sonoma Hwy       | Myra King          | 1938         | 132         | unknown   | unable to locate  |
|                            | 49-1806                    | *Santa Rosa       | Brass Foundary     | 1940         | 160         | unknown   | unable to locate  |
|                            | 49-1795                    | *Lake Ralphine    | City of Santa Rosa | 1947         | 846         | unknown   | unable to locate  |
|                            | 49-1797                    | *Montgomery Drive | City of Santa Rosa | 1952         | 1018        | municipal | unable to locate  |

Notes:

- 1 ERI assigned designation corresponds to approximate location depicted on Plate 3. Only wells within 2,000 feet of the site are shown on the map.
- discovered Well discovered during field investigation in April 2004
- no such address Surveys returned by Postal Service noting No Such Address
- \* No specific location was noted on the Well Drillers Report
- unknown No specific use for well noted on the Well Drillers Report
- other Well use noted as "other" on the Well Drillers Report - no further description noted

Well information provided by the Department of Water Resources (DWR), Sonoma County Permit and Resource Management Department well files  
Central District 3251 S. Street, Sacramento, CA 95816-7017.

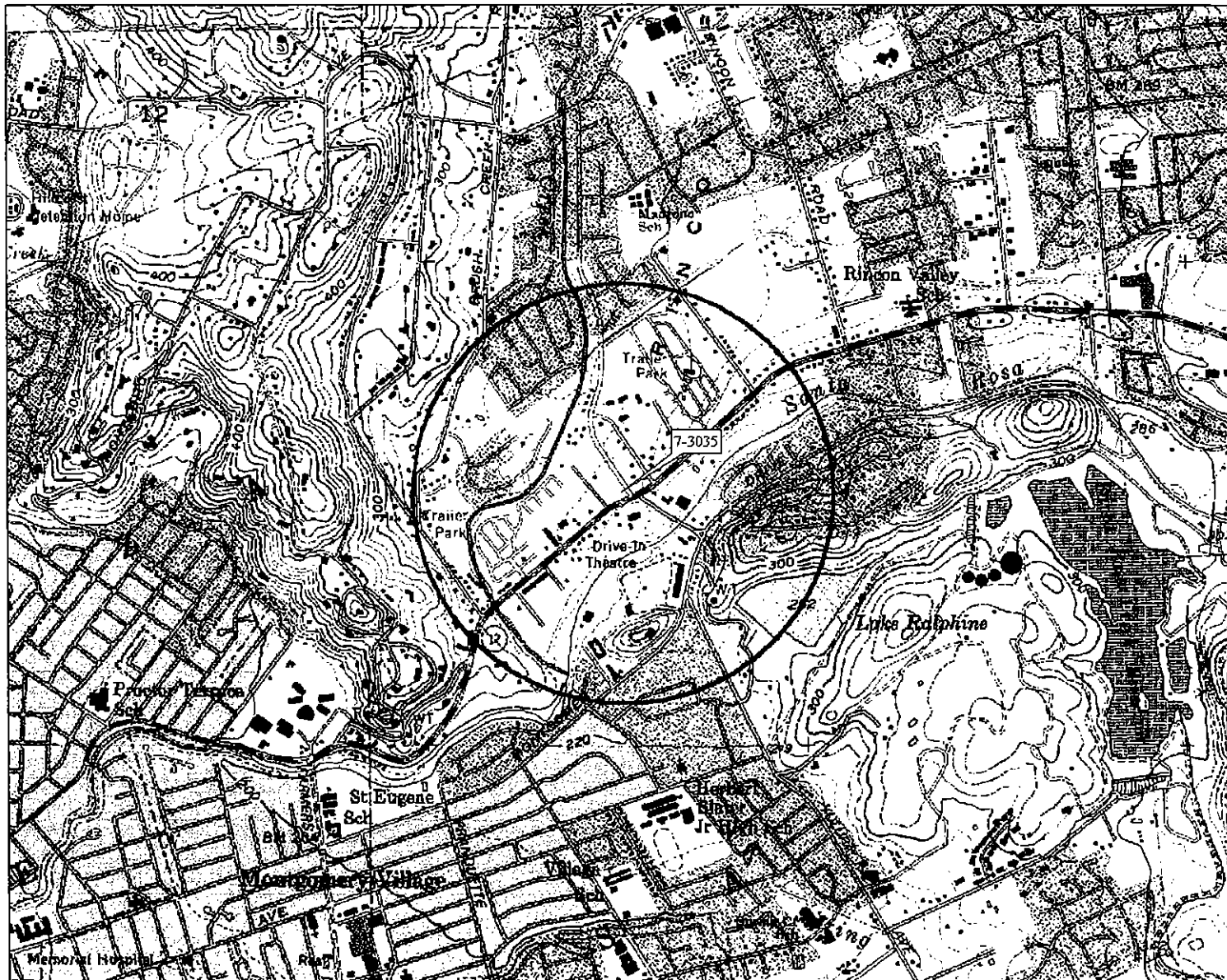
Well locations mapped using DeLorme Street Atlas USA application

**TABLE 2**  
**PRIVATE WATER WELL SAMPLING DATA**  
Former Exxon Service Station 7-3035  
4501 Sonoma Highway  
Santa Rosa, California  
(Page 1 of 1)

| Well ID # | Sampling Date | TPHd             | TPHg  | MTBE  | B     | T     | E     | X     | ETBE  | TAME  | TBA   | EDB   | 1,2, DCA | DIPE  | ETOH  | MTOH    |
|-----------|---------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|---------|
|           |               | ←-----µg/L-----→ |       |       |       |       |       |       |       |       |       |       |          |       |       |         |
| W-4420A   | 11/03/04      | <50              | <50.0 | <0.50 | <0.50 | <0.50 | <0.50 | <1.00 | <0.50 | <0.50 | <10.0 | <0.50 | <0.50    | <0.50 | <50.0 | <10,000 |
| W-4420B   | 11/03/04      | <50              | <50.0 | <0.50 | <0.50 | <0.50 | <0.50 | <1.00 | <0.50 | <0.50 | <10.0 | <0.50 | <0.50    | <0.50 | <50.0 | <10,000 |
| W-4372    | 11/03/04      | <50              | <50.0 | <0.50 | <0.50 | <0.50 | <0.50 | <1.00 | <0.50 | <0.50 | <10.0 | <0.50 | <0.50    | <0.50 | <50.0 | <10,000 |
| W-4358    | 11/03/04      | <50              | <50.0 | <0.50 | <0.50 | <0.50 | <0.50 | <1.00 | <0.50 | <0.50 | <10.0 | <0.50 | <0.50    | <0.50 | <50.0 | <10,000 |
| W-4200    | 11/03/04      | <50              | <50.0 | <0.50 | <0.50 | <0.50 | <0.50 | <1.00 | <0.50 | <0.50 | <10.0 | <0.50 | <0.50    | <0.50 | <50.0 | <10,000 |
| W-4343    | 11/03/04      | <50              | <50.0 | <0.50 | <0.50 | <0.50 | <0.50 | <1.00 | <0.50 | <0.50 | <10.0 | <0.50 | <0.50    | <0.50 | <50.0 | <10,000 |
| W-4100    | 11/03/04      | <50              | <50.0 | <0.50 | <0.50 | <0.50 | <0.50 | <1.00 | <0.50 | <0.50 | <10.0 | <0.50 | <0.50    | <0.50 | <50.0 | <10,000 |
|           |               |                  |       |       |       |       |       |       |       |       |       |       |          |       |       |         |
| W-4389    | 08/19/04      | <50              | <100  | 3.80  | <0.50 | <0.50 | <0.50 | <1.00 | <0.50 | <0.50 | <10.0 | <0.50 | <0.50    | <0.50 | <50.0 | <10,000 |
|           | 10/04/04      | <50              | <50.0 | 1.30  | <0.50 | <0.50 | <0.50 | <1.00 | <0.50 | <0.50 | <10.0 | <0.50 | <0.50    | <0.50 | <50.0 | <10,000 |

Notes:

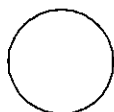
|         |   |   |
|---------|---|---|
| W-4420A | = | (W) Water well; (4420) street address number; (A) well designation, if more than one well is present. |
| TPHd    | = | Total petroleum hydrocarbons as diesel analyzed using EPA Method 3510/8015B.                          |
| TPHg    | = | Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015B.                             |
| MTBE    | = | Methyl tertiary butyl ether analyzed using EPA Method 524.2.  |
| BTEX    | = | Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 524.2.                    |
| ETBE    | = | Ethyl tertiary butyl ether analyzed using EPA Method 524.2.   |
| TAME    | = | Tertiary amyl methyl ether analyzed using EPA Method 524.2.   |
| TBA     | = | Tertiary butyl alcohol analyzed using EPA Method 524.2.   |
| EDB     | = | 1,2-Dibromoethane analyzed using EPA Method 524.2.  |
| 1,2-DCA | = | 1,2-Dichloroethane analyzed using EPA Method 524.2.   |
| DIPE    | = | Di-isopropyl ether analyzed using EPA Method 524.2.   |
| ETOH    | = | Ethanol analyzed using EPA Method 524.2.  |
| MTOH    | = | Methanol analyzed using EPA Method 8015B.   |
| µg/L    | = | Micrograms per liter.   |
| <       | = | Not detected at or above the laboratory method reporting limit.                                       |



3-D TopoQuads Copyright © 1999 DeLorme, Yarmouth, ME 04096 Source Data: USGS 1:50,000 Scale: 1:19,714 Detail: 1:5,000 Datum: WGS84

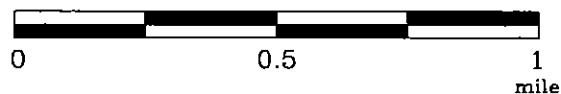
2003Topo

## EXPLANATION



1/2-mile radius circle

## APPROXIMATE SCALE



SOURCE:  
Modified from a map  
provided by  
DeLorme 3-D TopoQuads



## SITE VICINITY MAP

FORMER EXXON SERVICE STATION 7-3035  
4501 Sonoma Highway  
Santa Rosa, California

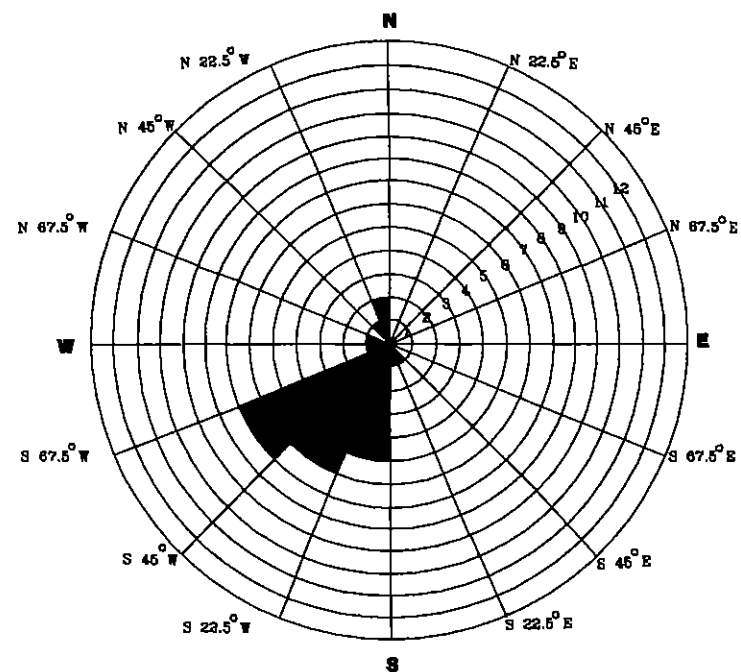
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2003

PLATE

1

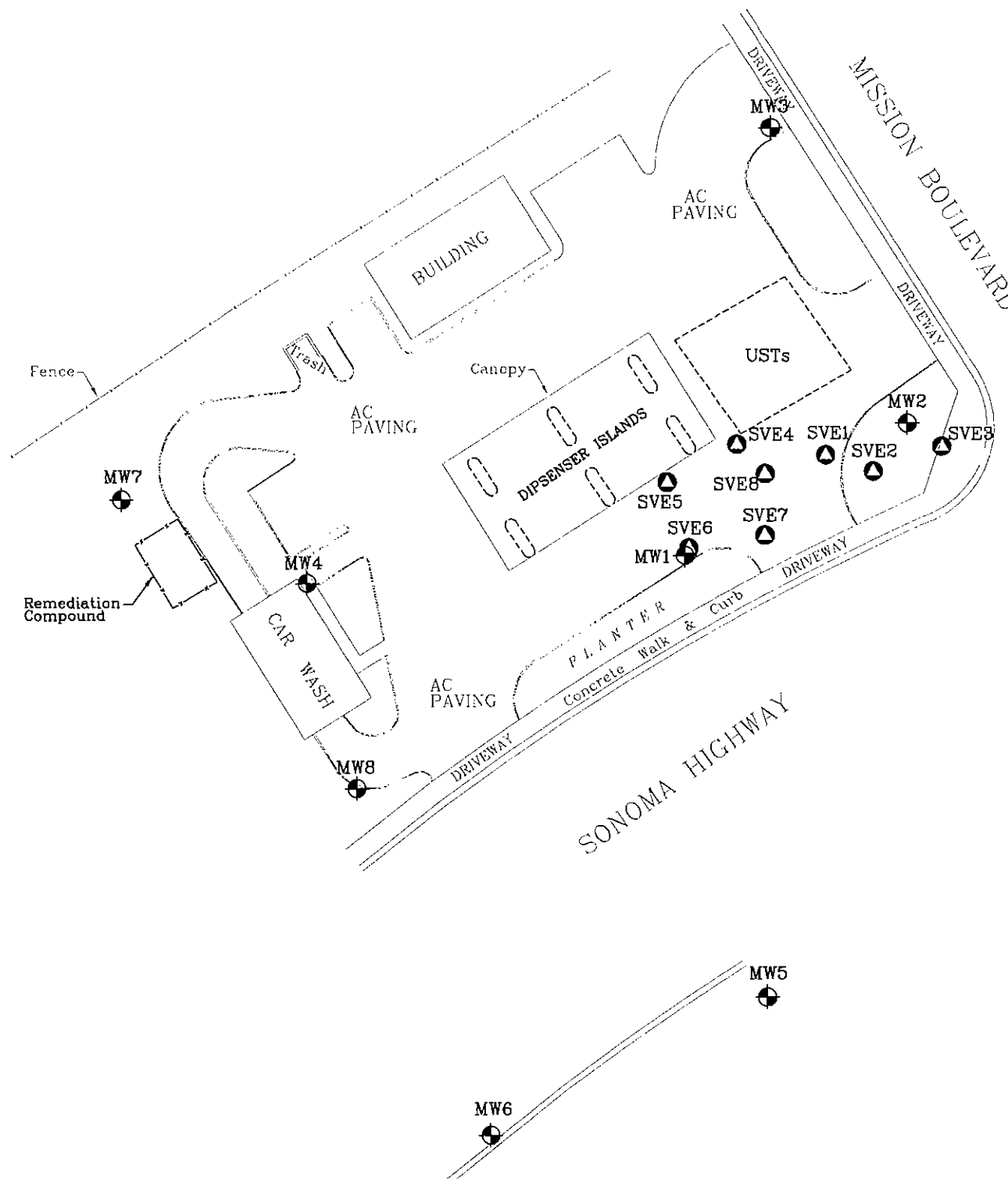




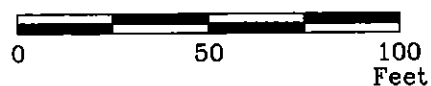
# EXPLANATION

Rose diagram developed by evaluating the hydraulic gradient from the quarterly monitoring data. Each shaded area on the rose diagram represents the number of monitoring events that the hydraulic gradient plotted in that 22.5 degree sector. Data used is from second quarter to 1989 to first quarter 2003.

## GROUNDWATER FLOW DIRECTION ROSE DIAGRAM



# APPROXIMATE SCALE



FN 20030005\_SP

## GENERALIZED SITE PLAN

FORMER EXXON SERVICE STATION 7-3035  
4501 Sonoma Highway  
Santa Rosa, California

## EXPLANATION

- MW8  
Groundwater Monitoring Well
- SVE8  
Air Sparge/Soil Vapor Extraction Well

## PROJECT NO.

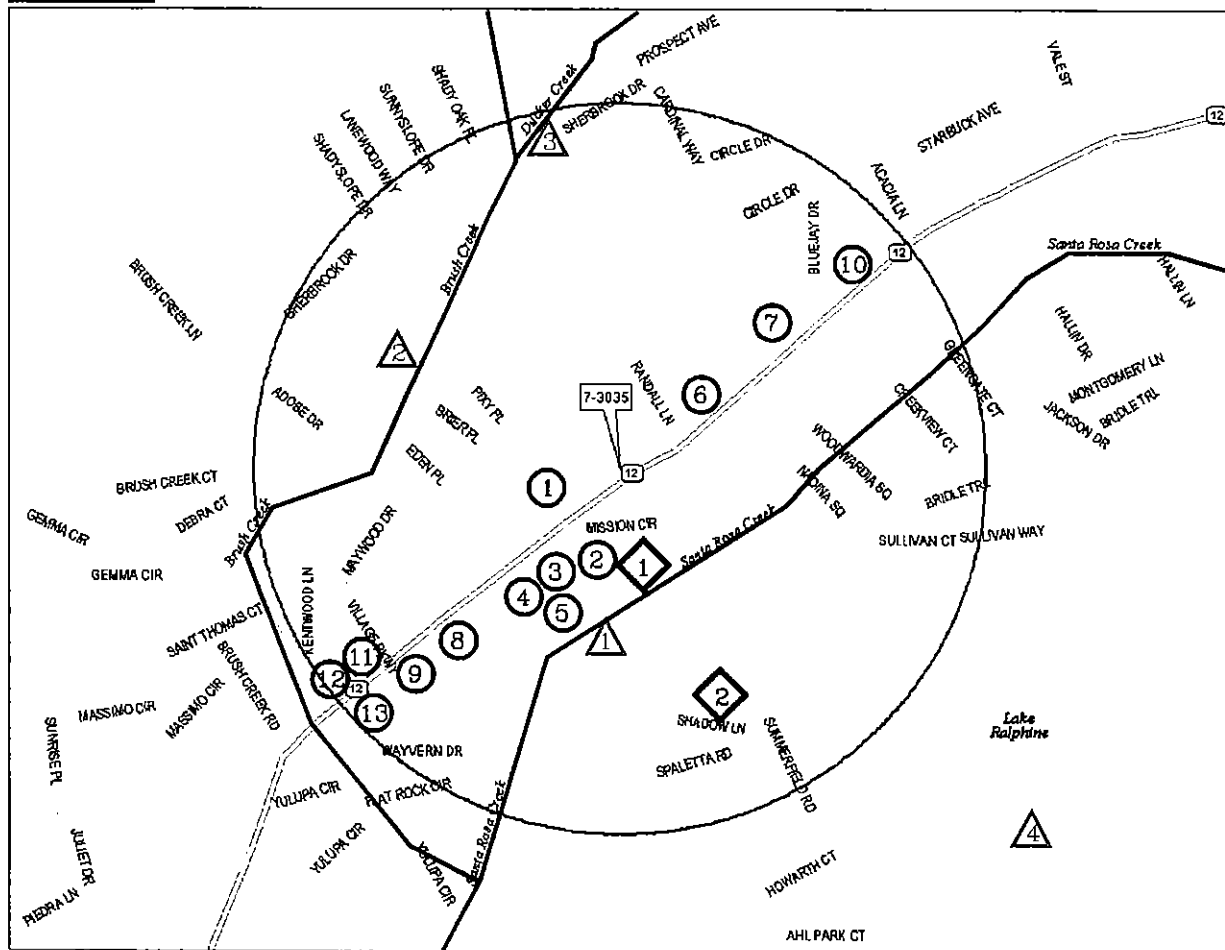
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## PLATE

2

Jan. 16, 2003



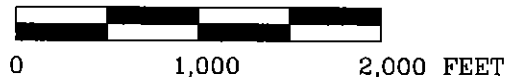


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2,000-FOOT RADIUS CIRCLE

APPROXIMATE SCALE



FN 2003TOPOSRS

**EXPLANATION**

**SENSITIVE RECEPTORS**

**WATER WELLS**

- |                                |                                |
|--------------------------------|--------------------------------|
| ① 4389 Sonoma Hwy (300 feet)   | ⑧ 4344 Sonoma Hwy (1,200 feet) |
| ② 4420 Sonoma Hwy (400 feet)   | ⑨ 4200 Sonoma Hwy (1,500 feet) |
| ③ 4372 Sonoma Hwy (500 feet)   | ⑩ 4700 Sonoma Hwy (1,600 feet) |
| ④ 4343 Sonoma Hwy (800 feet)   | ⑪ 4100 Sonoma Hwy (1,800 feet) |
| ⑤ 4358 Sonoma Hwy (800 feet)   | ⑫ 3835 Sonoma Hwy (1,900 feet) |
| ⑥ 4625 Sonoma Hwy (600 feet)   | ⑬ 4040 Sonoma Hwy (1,900 feet) |
| ⑦ 4671 Sonoma Hwy (1,100 feet) |                                |

**SCHOOLS**

- |   |
|---|
| ① One to One Learning Center (400 feet)   |
| ② Stepping Stones Pre-School (1,300 feet) |

**SURFACE WATER**

- |                               |
|-------------------------------|
| ① Santa Rosa Creek (700 feet) |
| ② Brush Creek (1,200 feet)    |
| ③ Ducker Creek (2,000 feet)   |
| ④ Lake Ralphine (2,000 feet)  |

**HOSPITALS**

- |        |
|--------|
| ① None |
|--------|

**NEAREST BASEMENT**

- |        |
|--------|
| ① None |
|--------|



**SENSITIVE RECEPTOR MAP**

FORMER EXXON SERVICE STATION 7-3035  
4501 Sonoma Hwy  
Santa Rosa, California

**PROJECT NO.**

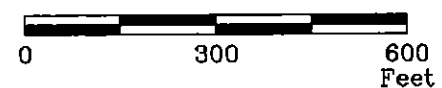
2003

**PLATE**

3



APPROXIMATE SCALE



FN 20030008\_SP



**PRIVATE WELL LOCATION MAP**  
FORMER  
EXXON SERVICE STATION 7-3035  
4501 Sonoma Highway  
Santa Rosa, California

**EXPLANATION**

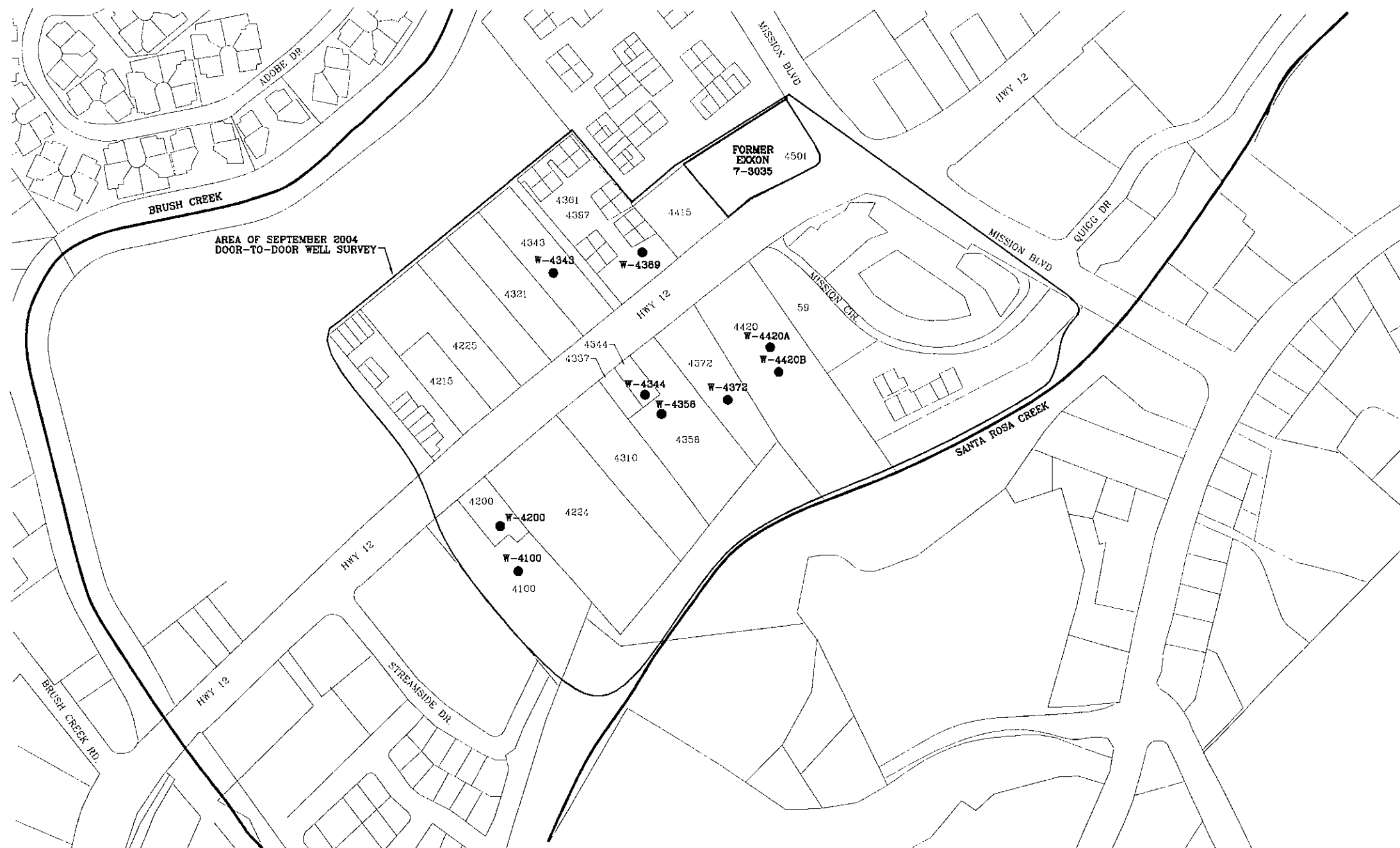
W-4389  
● Domestic Well

**PROJECT NO.**

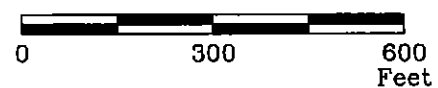
2003

**PLATE**

4



APPROXIMATE SCALE



FN 20030008\_SP



## PRIVATE WELL LOCATION MAP

FORMER  
EXXON SERVICE STATION 7-3035  
4501 Sonoma Highway  
Santa Rosa, California

### EXPLANATION

W-4389  
● Domestic Well

PROJECT NO.

2003

PLATE

4

**ATTACHMENT A**  
**REGULATORY CORRESPONDENCE**



Alan C. Lloyd, Ph.D.  
Agency Secretary

**California Regional Water Quality Control Board**  
**North Coast Region**  
**Beverly Wasson, Chairman**

<http://www.waterboards.ca.gov/northcoast>  
5550 Skylane Boulevard, Suite A, Santa Rosa, California 95403  
Phone: 1 (877) 721-9203 (toll free) • Office: (707) 576-2220 • FAX: (707) 523-0135



Arnold  
Schwarzenegger  
Governor

April 28, 2005

Ms. Jennifer Sedlachek  
ExxonMobil Refining and Supply  
4096 Piedmont Avenue #194  
Oakland, CA 94611

RECEIVED  
MAY 02 2005

BY: .....

Subject: Comments on Supplemental Evaluation of Groundwater Report and Fourth Quarter 2004 Groundwater Monitoring and Remediation Status Report

File: Exxon #7-3035, 4501 Sonoma Highway, Santa Rosa, CA  
Case No. 1TSR295

Dear Ms. Sedlachek:

Regional Water Board staff received the December 8, 2004 report titled *Supplemental Evaluation of Groundwater* prepared by Environmental Resolutions, Inc. (ERI) for the subject site. Thank you for submittal of the report containing the results of the CPT investigation. We have also received and reviewed the Fourth Quarter 2004 Groundwater Monitoring (QMR) and Remediation Status Report received March 7, 2005.

Our comments on the submitted reports are as follows:

Supplemental Evaluation of Groundwater-

- Five CPT borings were advanced in August 2004 and discrete groundwater samples were collected near the CPT locations from "interpreted coarse grain sediment layers." Results from the groundwater sampling indicate that significant concentrations of TPH gasoline and MTBE, and concentrations of TAME and TBA were detected in onsite sample point CPT-4 up to 42 feet below ground surface (bgs). TPH gasoline, MTBE, TAME, and TBA were detected in groundwater samples collected at depths up to 54 feet bgs in offsite sample location CPT- 1. Lesser concentrations of chemicals were detected at various depths in groundwater at CPT-3 and CPT-5.
- Staff does not agree that "dissolved hydrocarbons are delineated vertically and laterally southwest of the site by boring CPT-2." Although groundwater samples collected at CPT-2 did not contain detectable contamination, further work may be required in the future to delineate the contaminated groundwater plume southwest of MW-7, MW-4 and MW-8.

***California Environmental Protection Agency***

*Recycled Paper*

- The Supplemental Evaluation of Groundwater report did not contain an updated Sensitive Receptor Survey (SRS) or a workplan proposing additional work or installation of monitoring wells based on evaluation of the CPT results. Rob Saur, ERI, indicated in a phone conversation on March 18, 2005 that these reports would be submitted in one month.

#### Summary of Sampling of Domestic Wells Report Received-

- Thank you for submittal of the report titled, *Summary of Sampling of Domestic Wells* prepared by ERI, Inc. and received April 5, 2005. According to ERI, the results of the domestic well sampling have been provided to individual property owners. Sampling of selected water supply wells recommended by ERI can and should commence with the next quarterly monitoring event.
- Staff has not had an opportunity to review the report on sampling of domestic wells at this time. Staff comments on the domestic well sampling report will be forthcoming.
- In order to compile all SRS information for this site in one location, please include any new information such as private well locations and sampling results, as an addendum or update to the April 16, 2004 SRS. Please include an updated SRS map for the site in the addendum showing all well locations and other sensitive receptors located near the site.

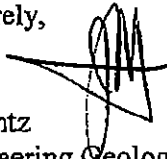
#### Fourth Quarter 2004 Groundwater Monitoring and Remediation Status Report-

- Diesel range organics were detected in an effluent and intermediate groundwater sample collected from the treatment system on October 6, 2004. The laboratory analytical result is footnoted. Please further characterize this detection. Diesel is currently not analyzed in the quarterly monitoring of groundwater at this site.
- Based on the groundwater sampling results reported for the CPT investigation, all monitoring wells need to be sampled quarterly for the seven fuel oxygenates, including ethanol and methanol, using EPA Method 8260.

In summary, we request submittal of the following: 1) a workplan for installation of shallow and deep monitoring wells based on the CPT findings, quarterly monitoring data, and domestic well sampling results and 2) an SRS addendum or update report to include a compilation of all wells identified in the area, and an updated SRS map. Please submit these plans within 35 days of receipt of this letter.

If you have any questions, please contact me at (707) 576-2838.

Sincerely,



Jo Bentz  
Engineering Geologist

JB:clh/042805\_JB\_Comments on CPT report- Exxon, 4501 Sonoma Hwy 2.doc

cc: Mr. James Chappell, Environmental Resolutions, Inc., 73 Digital Drive, Suite 100,  
Novato, California 94949-5791  
Mr. Joseph A Aldridge, Valero Energy Corporation, 685 West Third Street, Hanford, CA  
93230  
Santa Rosa Fire Department  
John Anderson, SCEHD  
Whitney Parker, 4389 Sonoma Hwy., Santa Rosa, CA 95409  
Lisa Esposito, Massingham and Associate Management, Inc., 2890 North Main Street,  
Suite 304, Walnut Creek, CA 94597